Thomas G Fan

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EDUCATION

Missouri University of Science and Technology (Missouri S&T)   Rolla, MO

B.S. Computer Science (Degree Completed) — **GPA: *3.944/ 4.0***   May 2023

M.S. Computer Science (Degree Completed) — **GPA: *4.0/ 4.0***

- Relevant Courses: Algorithms, Data Structures, Operating Systems, Databases, Networks, AI

CLUBS & EXPERIENCE

Sandia National Laboratories   Albuquerque, NM
Software Engineer   06/03/23 - Present

- Developed robust code in C++ and conducted rigorous unit testing, utilizing Rally to ensure software reliability and performance within the development team on large scale, high consequence, production software for remote sensing.
- Ensured optimal performance and reliability of treaty monitoring satellite and ground systems through meticulous monitoring, maintenance, and troubleshooting.

Missouri S&T — CS1500: Introduction to Computational Thinking   Rolla,MO
Graduate Teaching Assistant   8/13/23 - 12/31/23

- Presented course lectures, designed lab exercises, and gave constructive, positive feedback to students in a timely manner to impart crucial foundational computational skills in Python.
- Maintained consistent, professional correspondence with students while demonstrating flexibility and adaptability in the classroom to each individual student's needs.

Gap Tech Internship   San Francisco, CA
Software Engineer Intern   Summer 2022

- Backend development on price planning and execution for the price item planning team using Java and the Spring Boot framework while learning and implementing Scrum methodologies.
- Developed and moved code through production that updated deprecated metrics used in service and API calls.
- Monitored code affecting controllers and end points through database queries and unit testing.

Wells Fargo Internship   St.Louis, MO
Software Engineer Tech Intern   Summer 2021

- Influenced billing fee calculations that resulted in diagnostics for over 100,000 service calls.
- Served 23 Crown Jewel web applications and refined queries, alerts, and transaction snapshots in the wholesale of wealth and investment software.
- Consulted application performance monitoring (APM) tools to oversee database issues and server health.

Multirotor Robot Software Design Team   Rolla, MO
Computer Vision Developer   8/13/19 - 05/13/22

- Teamed with 30+ software developers in designing and unit testing code for flying autonomous drones in competition with numpy and machine learning in python.
- Developed drone software able to detect objects from the surrounding background at 70 mph. Blobs and objects were counted by software through color contrast analysis. Assigned with drone blob detection in a subgroup for the Multirotor Robot Design Team drone project.

PROJECTS

All projects listed below (and many more) on my GitHub

Personal Website Portfolio — https://thomasfan.netlify.app/   7/22/21

- Designed an interactive website using Ruby packages to deploy a responsive and resizable interface.

SKILLS

- Java (Object Oriented Programming), C++, Python, HTML/CSS
- Git, SQL, Jira, Agile Methodology, Visual Studio, Postman, Splunk, Excel